

CONTROL SURVEYS FOR THE CITY OF SUTHERLIN, OREGON

By

Bert Mason Jr., Oak Grove, Oregon

Control surveys were undertaken in August and September of 1957 by this organization under contract to Spencer B. Gross of Beaverton, Oregon in compliance with specifications issued by the Bureau of Municipal Research for mapping the City of Sutherlin.

Three concrete monuments were set as specified, and as described in the Control Data Summary furnished herewith in Central Avenue.

Polaris was observed for azimuth at elongation at MONUMENT "A", using a Kern 1" direct reading theodolite. The probable error of the observations is 0.56 second. 50,069 feet of closed traverse was run in several loops, all of which closed within 2nd order limits before adjustment.

13,000 feet of dead ended traverse was run to the same standards as the closed loops for photo control purposes.

All traverses were leveled over using three wire methods. All level lines closed First Order excepting the "G" line up North Comstock which is 3rd order.

Only those stations and Bench Marks are listed in the "Control Data Summary" which were of a permanent nature or were protected from disturbance. Wooden Hubs, tacks in pavement, RR spikes in graded shoulders, though controlled to the same accuracy as other points are not shown.

Azimuth has been converted to Lambert Grid, South (OREGON) Zone. Monument "A" has been assigned coordinates of X 20,000.00 and Y 20,000.00 which will place the origin of the independent City Grid sufficiently far south and west to take care of any future expansion or engineering work without negative coordinates.

Level datum is United States Coast & Geodetic Survey, 1956 adjustment of 1954 releveling.

**CONTROL DATA SUMMARY  
CITY OF SUTHERLIN, OREGON**

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August, Sept., 1957

POINT	DESCRIPTION	COORDINATES
Monument "1"	A punch mark in the center of a bronze plate set in the top of a concrete post 6 inches in diameter by 3 feet long set 2 inches below the surface of the ground 9.0 feet south of the south edge of the blacktop paving at East Central Avenue, Sutherlin, Oregon. It is 5.5 feet east of the easterly edge of a concrete sidewalk leading to 1302 E. Central Ave.; 66.2 feet west of centerline of a private driveway southerly. RM 1 is the center of dial of water meter 13.60 feet S 55° E. RM 2 is a duplex nail driven 1 foot above ground in the south side of power pole "10/5" 46.90 feet S 58° W. To reach from the post office in Sutherlin, drive east on E. Central Ave. 1.00 miles to beginning of first curve left and station site.	X 20,000.00
		Y 20,000.00
		Z 539,482
AO-6	Concrete nail in blacktop at approx. intersection of centerlines of E. Central & Terrace Lane	X 18,065.12 Y 19,708.87 Z 514,650
AO-8	Punch mark in RR spike approx. C/L intersection E. Central and Mar Donna	X 17,942.36 Y 19,357.64 Z 520,541
AO-11	Punch mark in RR spike approx. C/L intersection E Central and Waite Street	X 17,811.40 Y 19,424.07 Z 520,671
AO-14	Punch mark in RR spike approx. 2 feet south of north edge of blacktop of E. Central and C/L of Uratilla	X 18,897.24 Y 19,378.14 Z 518,780
AI-0	Existing city monument, iron rod with cross, in monument cover 2 feet south of north edge of blacktop at E. Central & Villarette	X 18,838.33 Y 19,456.58 Z 518,638

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A2-0	Existing city monument, stone with cross, in monument cover at E. Central and Umpqua	X	15,280.06
		Y	18,054.89
		Z	515.402
A3-0	Existing city monument, stone with cross, in monument cover at E. Central and State Street	X	14,827.45
		Y	18,954.46
		Z	514.252
A4-0	Existing city monument, stone with cross, in monument cover at Central and Calapooya Street	X	14,375.08
		Y	18,874.20
		Z	513.396
A5-0	Existing city monument, stone with cross, in monument cover at Central and Main St. (Name derived from plat in city office.)	X	13,984.08
		Y	18,796.18
		Z	516.419
A6-0	RR spike in blacktop approx. 15 feet south of north curb of Central and approx. C/L of Pine	X	13,231.02
		Y	18,642.94
		Z	521.251
Monument "B"	Punch mark in bronze disc set in concrete post on west shoulder of sewer manhole at Central and Branton. Surface is flush with pavement.	X	11,313.10
		Y	18,263.01
		Z	524.841
Monument "C"	Punch mark in bronze disc set in concrete post approx. C/L of Comstock and about 4 feet north of main travel lane westbound on Central. In a standard monument case.	X	9,646.33
		Y	17,930.44
		Z	519.075
A9-0	Punch mark in RR spike approx. 4 feet east of west edge of blacktop, approx. C/L of T-road west, in old State Highway No. 225, 1701.17 feet from Monument "C".	X	8,995.90
		Y	16,358.58
		Z	507.745
A10-0	Punch mark in RR spike approx. C/L intersection of Airway and old Highway No 225.	X	8,945.62
		Y	15,872.98
		Z	501.857
A11-0	Punch mark in RR spike approx. C/L of old Highway No. 225, 2040.96 feet southerly from A10-0.	X	8735.41
		Y	13,842.96
		Z	508.552

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A12-0	Punch mark in RR spike approx. C/L intersection of Page Ave. and old Highway No. 224, 93.58 feet southerly from A11-0.	X	8,753.86
		Y	13,751.22
		Z	507.761
A18-0	Tabk in 2" square hub 1 foot west of easternmost guard rail post at sharp curve east of grade crossing of Calapooya and S.P.R.R.	X	12,574.21
		Y	12,859.09
		Z	522.691
A18-0	Concrete nail in blacktop appr. C/L of Calapooya and private driveway east. 576.37 feet northerly from A18-0.	X	12,886.33
		Y	13,343.66
		Z	519.068
A20-0	Punch mark in RR spike approx. C/L intersection Calapooya and Hastings.	X	13,706.07
		Y	15,907.33
		Z	507.855
A21-0	Punch mark in RR spike approx. 2 feet east of C/L of Calapooya, 191.86 feet southerly from A22-0.	X	14,455.80
		Y	18,252.84
		Z	514.979
A22-0	Punch mark in RR spike approx. C/L of Calapooya approx. 80 feet north of bridge over Sutherland Creek, 438.29 feet southerly from A4-0.	X	14,461.89
		Y	18,444.59
		Z	515.422
E6-0	Concrete nail in southwest corner of concrete meter box on north-east corner of 6th and Willamette	X	15,509.07
		Y	20,915.52
		Z	613.788
B3-0	Punch mark in RR spike in blacktop of E. Central Ave. 187 feet west of C/L of St. John Street; 9.65 feet south of north edge of blacktop; 29.1 feet SW of 1st pole west of St. John St.	X	20,938.85
		Y	20,713.72
		Z	537.321
B4-0	Punch mark in RR spike in pavement of E. Central Ave. approx. 2 feet north of south edge of blacktop; 14.60 feet north of COPCO pole #35; 1338.64 feet east of B3-0.	X	20,215.56
		Y	20,955.42
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